



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Roberts Resources Inc.

34-31s-12w Barber Ks.

2020 N.Tyler RD. Ste.106
Wichita Ks.67212

Wheelock A#2

Job Ticket: 54243

DST#: 1

ATTN: Kent Roberts

Test Start: 2014.08.14 @ 00:32:12

GENERAL INFORMATION:

Formation: **Miss.**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:06:57

Time Test Ended: 09:07:42

Test Type: Conventional Bottom Hole (Initial)

Tester: Gary Pevoteaux

Unit No: 56

Interval: 4238.00 ft (KB) To 4284.00 ft (KB) (TVD)

Reference Elevations: 1536.00 ft (KB)

Total Depth: 4284.00 ft (KB) (TVD)

1528.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8352 Outside

Press @ Run Depth: 164.60 psig @ 4239.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.08.14

End Date:

2014.08.14

Last Calib.:

2014.08.14

Start Time: 00:32:17

End Time:

09:07:42

Time On Btm:

2014.08.14 @ 03:03:57

Time Off Btm:

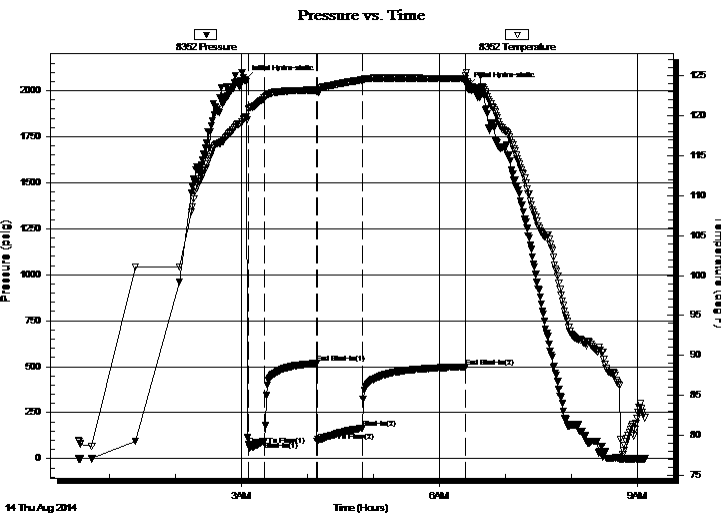
2014.08.14 @ 06:26:12

TEST COMMENT: IF: Strong blow . B.O.B. in 5 secs. GTS in 6 mins. (see gas flow report)

IS: No blow .

FF: Strong blow . (see gas flow report)

FS: Fair blow . Increase to 5 1/2".



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2059.13	119.76	Initial Hydro-static
3	75.11	120.80	Open To Flow (1)
18	95.27	122.22	Shut-In(1)
65	517.39	123.17	End Shut-In(1)
65	95.76	122.94	Open To Flow (2)
106	164.60	124.42	Shut-In(2)
200	499.61	124.60	End Shut-In(2)
203	2025.07	123.95	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
240.00	GCMW 23%g 3%m 84%w /Rw .065 @ 81	1.47
125.00	GCMW 44%g 11%m 45%w	1.23
35.00	GCWM 12%g 18%w 70%m	0.34

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.38	12.00	96.71
Last Gas Rate	0.38	4.50	69.23
Max. Gas Rate	0.38	12.00	96.71



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2020 N.Tyler RD. Ste.106
Wichita Ks.67212

Wheelock A#2

Job Ticket: 54243

DST#: 1

ATTN: Kent Roberts

Test Start: 2014.08.14 @ 00:32:12

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: 11.99 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 12000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
240.00	GCMW 23%g 3%m 84%w /Rw .065@81deg	1.475
125.00	GCMW 44%g 11%m 45%w	1.228
35.00	GCWM 12%g 18%w 70%m	0.344

Total Length: 400.00 ft Total Volume: 3.047 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:



**TRILOBITE
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DRILL STEM TEST REPORT

GAS RATES

Roberts Resources Inc.

34-31s-12w Barber Ks.

2020 N.Tyler RD. Ste.106
Wichita Ks.67212

Wheelock A#2

Job Ticket: 54243

DST#: 1

ATTN: Kent Roberts

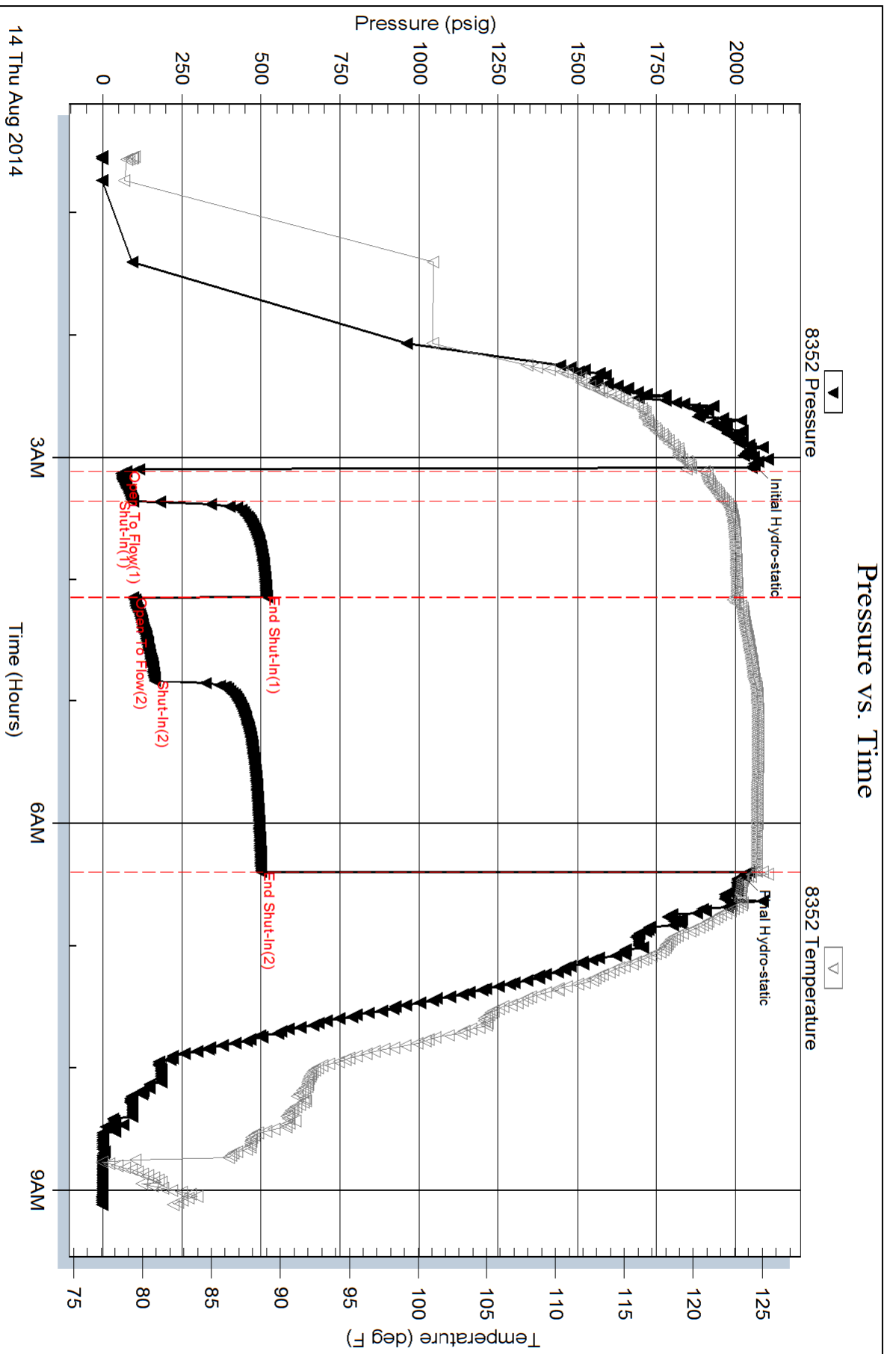
Test Start: 2014.08.14 @ 00:32:12

Gas Rates Information

Temperature: 59 (deg F)
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
1	10	0.38	12.00	96.71
1	10	0.38	12.00	96.71
1	15	0.38	9.00	85.72
2	10	0.38	7.00	78.39
2	20	0.38	5.00	71.07
2	30	0.38	5.00	71.07
2	40	0.38	4.50	69.23





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 ATTN: Kent Roberts

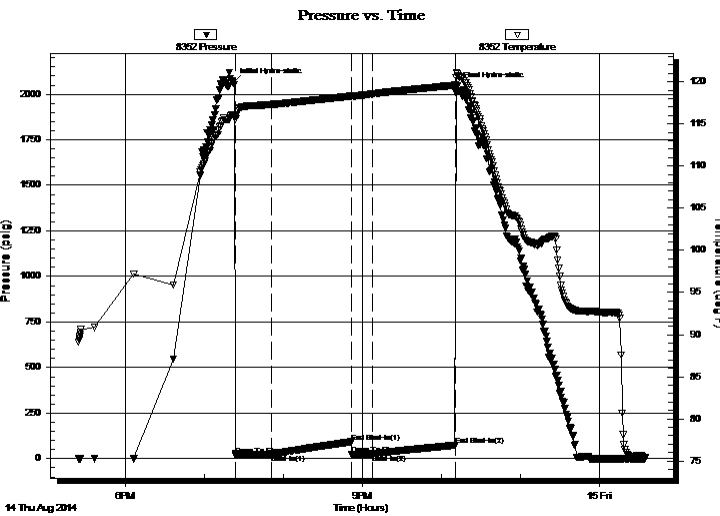
34-31s-12w Barber Ks.
Wheelock A#2
 Job Ticket: 54244 **DST#: 2**
 Test Start: 2014.08.14 @ 17:24:30

GENERAL INFORMATION:

Formation: **Miss.**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 19:24:00
 Time Test Ended: 00:34:45
 Interval: **4286.00 ft (KB) To 4326.00 ft (KB) (TVD)**
 Total Depth: 4326.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Gary Pevoteaux
 Unit No: 56
 Reference Elevations: 1536.00 ft (KB)
 1528.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8352 Outside
 Press @ Run Depth: 25.52 psig @ 4287.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.08.14 End Date: 2014.08.15 Last Calib.: 2014.08.15
 Start Time: 17:24:35 End Time: 00:34:44 Time On Btm: 2014.08.14 @ 19:22:15
 Time Off Btm: 2014.08.14 @ 22:11:15

TEST COMMENT: IF:Weak to fair blow . 3 - 6".
 IS:No blow .
 FF:Weak blow . 14" or less.
 FS:No blow .



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2062.52	116.09	Initial Hydro-static
2	18.75	115.63	Open To Flow (1)
29	23.22	117.30	Shut-In(1)
90	92.09	118.30	End Shut-In(1)
90	22.04	118.26	Open To Flow (2)
106	25.52	118.55	Shut-In(2)
169	74.51	119.59	End Shut-In(2)
169	2041.17	121.11	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	SGCM 2%g 98%m	0.15
0.00	120 ft.of GIP	0.00

* Recovery from multiple tests

Gas Rates

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



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FLUID SUMMARY

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34-31s-12w Barber Ks.

2020 N.Tyler RD. Ste.106
Wichita Ks.67212

Wheelock A#2

Job Ticket: 54244

DST#: 2

ATTN: Kent Roberts

Test Start: 2014.08.14 @ 17:24:30

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:

8000 ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbf

Water Loss: 10.79 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 8000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
30.00	SGCM 2%g 98%m	0.148
0.00	120 ft.of GIP	0.000

Total Length: 30.00 ft Total Volume: 0.148 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

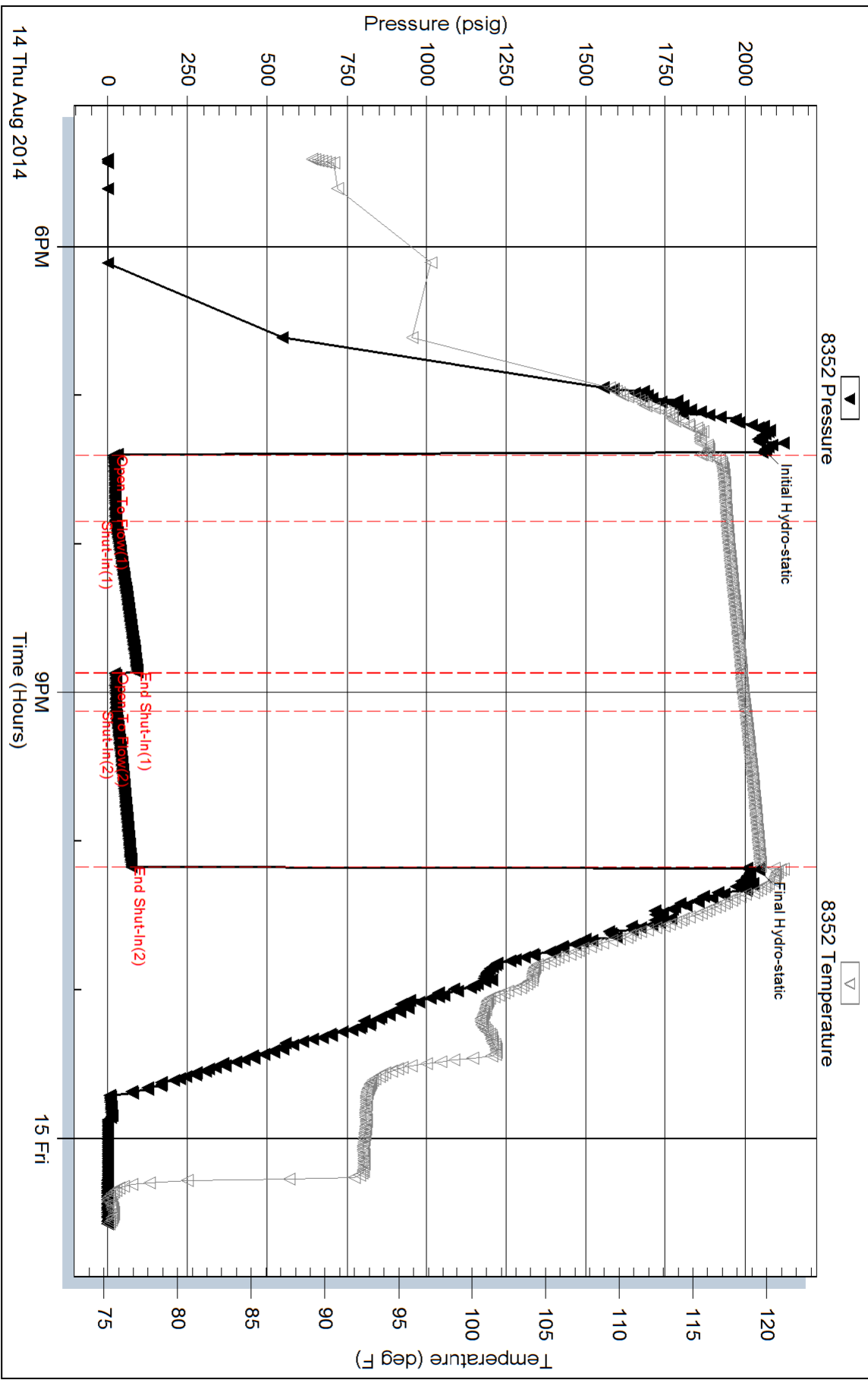
Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





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Roberts Resources Inc.

34-31s-12w Barber Ks.

2020 N.Tyler RD. Ste.106
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Wheelock A#2

Job Ticket: 54245

DST#: 3

ATTN: Kent Roberts

Test Start: 2014.08.15 @ 23:29:01

GENERAL INFORMATION:

Formation: **Viola**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:01:01

Time Test Ended: 07:30:31

Test Type: Conventional Bottom Hole (Reset)

Tester: Gary Pevoteaux

Unit No: 56

Interval: 4536.00 ft (KB) To 4572.00 ft (KB) (TVD)

Reference Elevations: 1536.00 ft (KB)

Total Depth: 4572.00 ft (KB) (TVD)

1528.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8352 Outside

Press @ RunDepth: 24.58 psig @ 4537.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.08.15

End Date:

2014.08.16

Last Calib.:

2014.08.16

Start Time: 23:29:06

End Time:

07:30:30

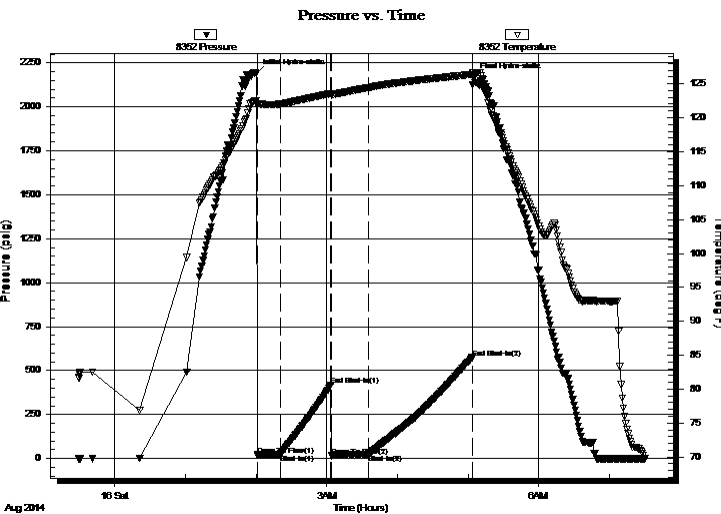
Time On Btm:

2014.08.16 @ 01:59:46

Time Off Btm:

2014.08.16 @ 05:04:16

TEST COMMENT: IF:Weak to fair blow . Increase to 7"
IS:No blow .
FF:Fair blow .5 - 6". Increasing to 10".
FS:No blow .



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2188.08	122.47	Initial Hydro-static
2	19.06	121.98	Open To Flow (1)
21	22.17	122.01	Shut-In(1)
64	416.27	123.57	End Shut-In(1)
64	15.76	123.31	Open To Flow (2)
96	24.58	124.44	Shut-In(2)
184	574.13	126.38	End Shut-In(2)
185	2168.61	126.66	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	OCM4%o 96%m/Clean oil@ top of tool	0.15
0.00	335 ft.of GIP	0.00

* Recovery from multiple tests

Gas Rates

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



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 ATTN: Kent Roberts

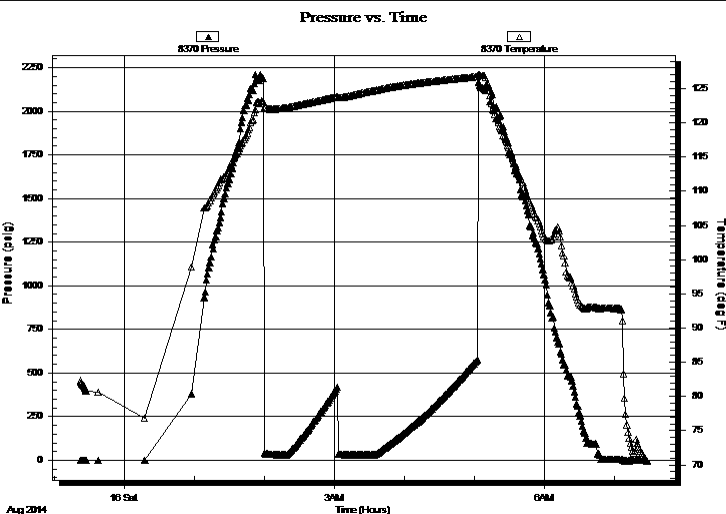
34-31s-12w Barber Ks.
Wheelock A#2
 Job Ticket: 54245 **DST#: 3**
 Test Start: 2014.08.15 @ 23:29:01

GENERAL INFORMATION:

Formation: Viola
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 02:01:01 Tester: Gary Pevoteaux
 Time Test Ended: 07:30:31 Unit No: 56
Interval: 4536.00 ft (KB) To 4572.00 ft (KB) (TVD)
 Reference Elevations: 1536.00 ft (KB)
 Total Depth: 4572.00 ft (KB) (TVD) 1528.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

Serial #: 8370 Inside
 Press@RunDepth: psig @ 4537.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.08.15 End Date: 2014.08.16 Last Calib.: 2014.08.16
 Start Time: 23:22:34 End Time: 07:27:43 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF:Weak to fair blow . Increase to 7"
 IS:No blow .
 FF:Fair blow .5 - 6". Increasing to 10".
 FS:No blow .



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
30.00	OCM4%o 96%m/Clean oil@ top of tool	0.15
0.00	335 ft.of GIP	0.00

* Recovery from multiple tests

Gas Rates

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



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34-31s-12w Barber Ks.

2020 N.Tyler RD. Ste.106
Wichita Ks.67212

Wheelock A#2

Job Ticket: 54245

DST#: 3

ATTN: Kent Roberts

Test Start: 2014.08.15 @ 23:29:01

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:

8000 ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.79 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 8000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
30.00	OCM4%o 96%mClean oil@ top of tool	0.148
0.00	335 ft.of GIP	0.000

Total Length: 30.00 ft Total Volume: 0.148 bbl

Num Fluid Samples: 0

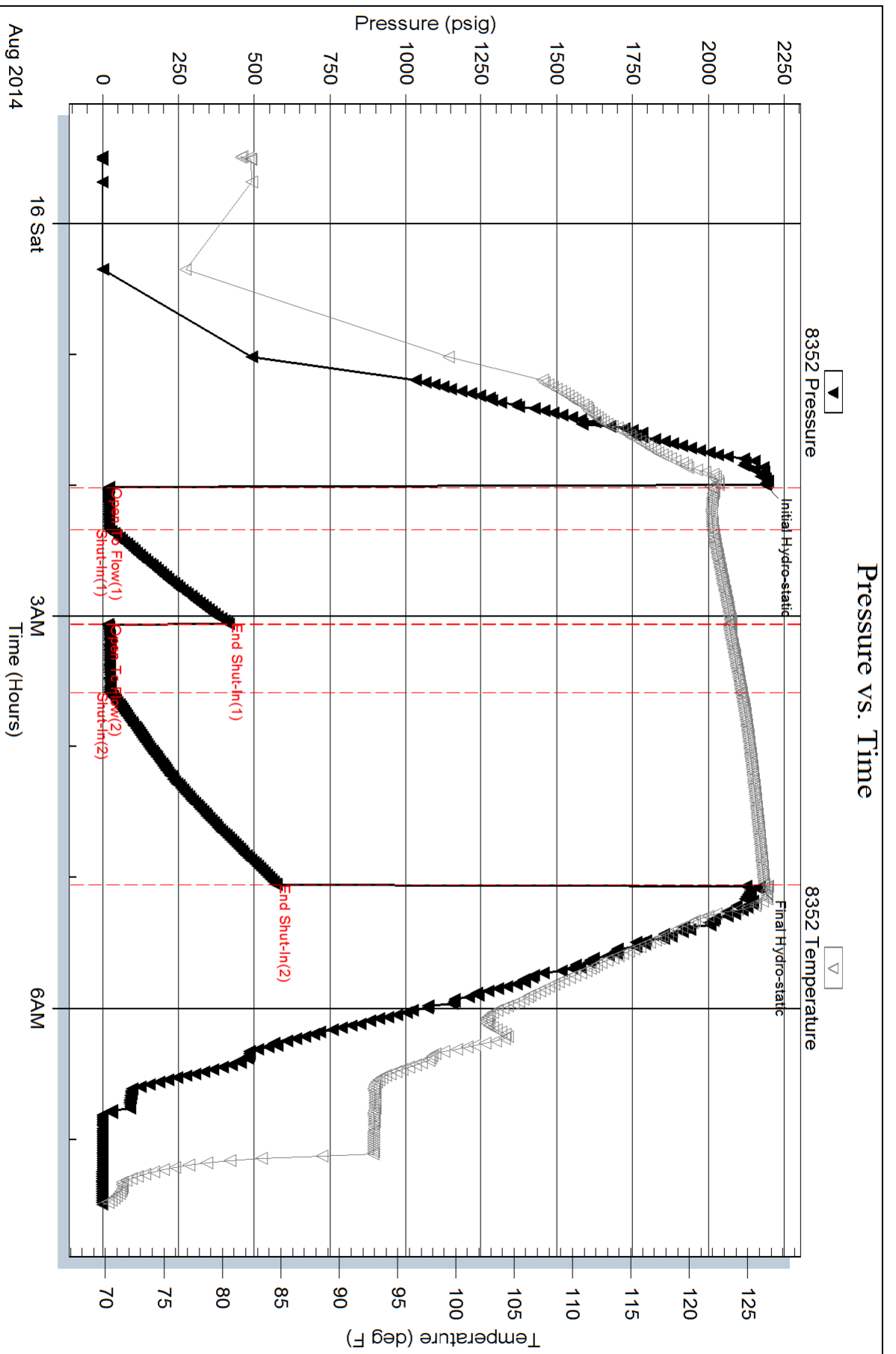
Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:



Serial #: 8370

Inside

Roberts Resources Inc.

Whelock A#2

DST Test Number: 3

