

**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

O'Brien Resources LLC

1-18-29 Lane, Ks

P.O. Box 6149  
Shreveport, LA 71136

Peck 1 #2

ATTN: Wyatt Urban

Job Ticket: 55640

DST#: 1

Test Start: 2014.03.01 @ 05:55:52

## GENERAL INFORMATION:

Formation: **H-I**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 10:13:52  
 Time Test Ended: 16:30:52  
 Interval: **4111.00 ft (KB) To 4174.00 ft (KB) (TVD)**  
 Total Depth: 4174.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Brandon Turley  
 Unit No: 60  
 Reference Elevations: 2746.00 ft (KB)  
 2739.00 ft (CF)  
 KB to GR/CF: 7.00 ft

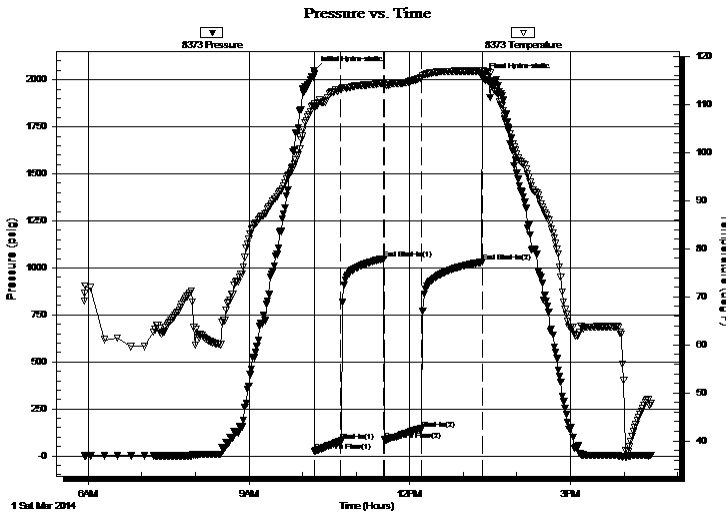
## Serial #: 8373

Inside

Press @ Run Depth: 144.04 psig @ 4112.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2014.03.01 End Date: 2014.03.01 Last Calib.: 2014.03.01  
 Start Time: 05:55:57 End Time: 16:30:52 Time On Btm: 2014.03.01 @ 10:12:52  
 Time Off Btm: 2014.03.01 @ 13:21:52

TEST COMMENT: IF: 1/4 blow built to 3 1/2 in 30 min.  
 IS: No return.  
 FF: Surface blow built to 3.  
 FS: No return.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2050.28	109.67	Initial Hydro-static
1	25.38	109.36	Open To Flow (1)
30	76.36	113.10	Shut-In(1)
78	1048.64	114.49	End Shut-In(1)
79	85.10	113.86	Open To Flow (2)
121	144.04	115.66	Shut-In(2)
188	1031.05	117.05	End Shut-In(2)
189	2011.35	117.16	Final Hydro-static

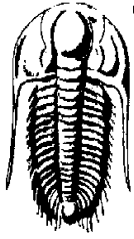
## Recovery

Length (ft)	Description	Volume (bbl)
120.00	mcw 80%w 20%m	0.59
140.00	mud 100%m	0.69

## Gas Rates

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





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P.O. Box 6149  
Shreveport, LA 71136

**Peck 1 #2**

Job Ticket: 55640

**DST#: 1**

ATTN: Wyatt Urban

Test Start: 2014.03.01 @ 05:55:52

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

40000 ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.60 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3200.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	mcw 80%w 20%m	0.590
140.00	mud 100%m	0.688

Total Length: 260.00 ft      Total Volume: 1.278 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

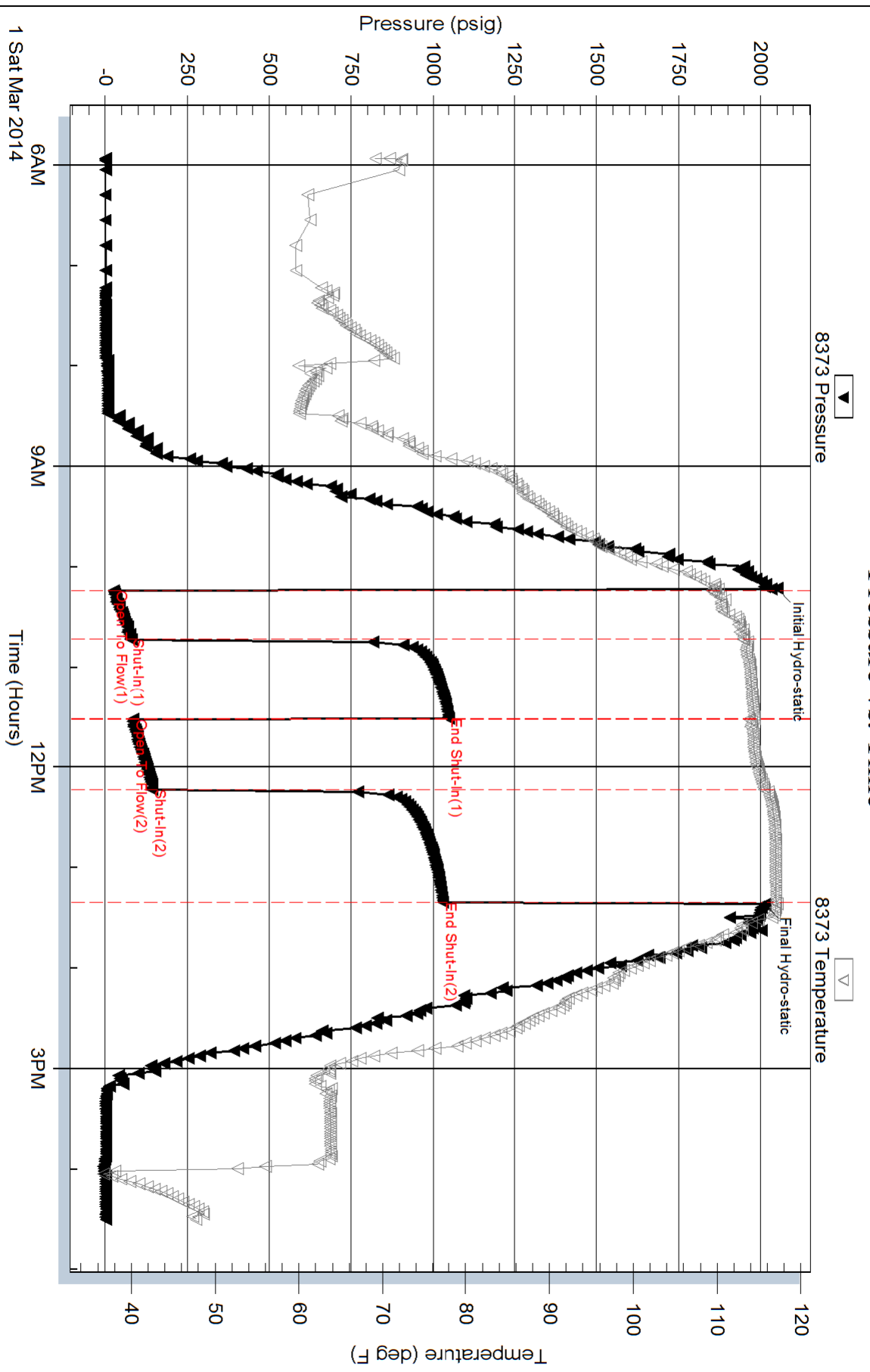
Serial #:

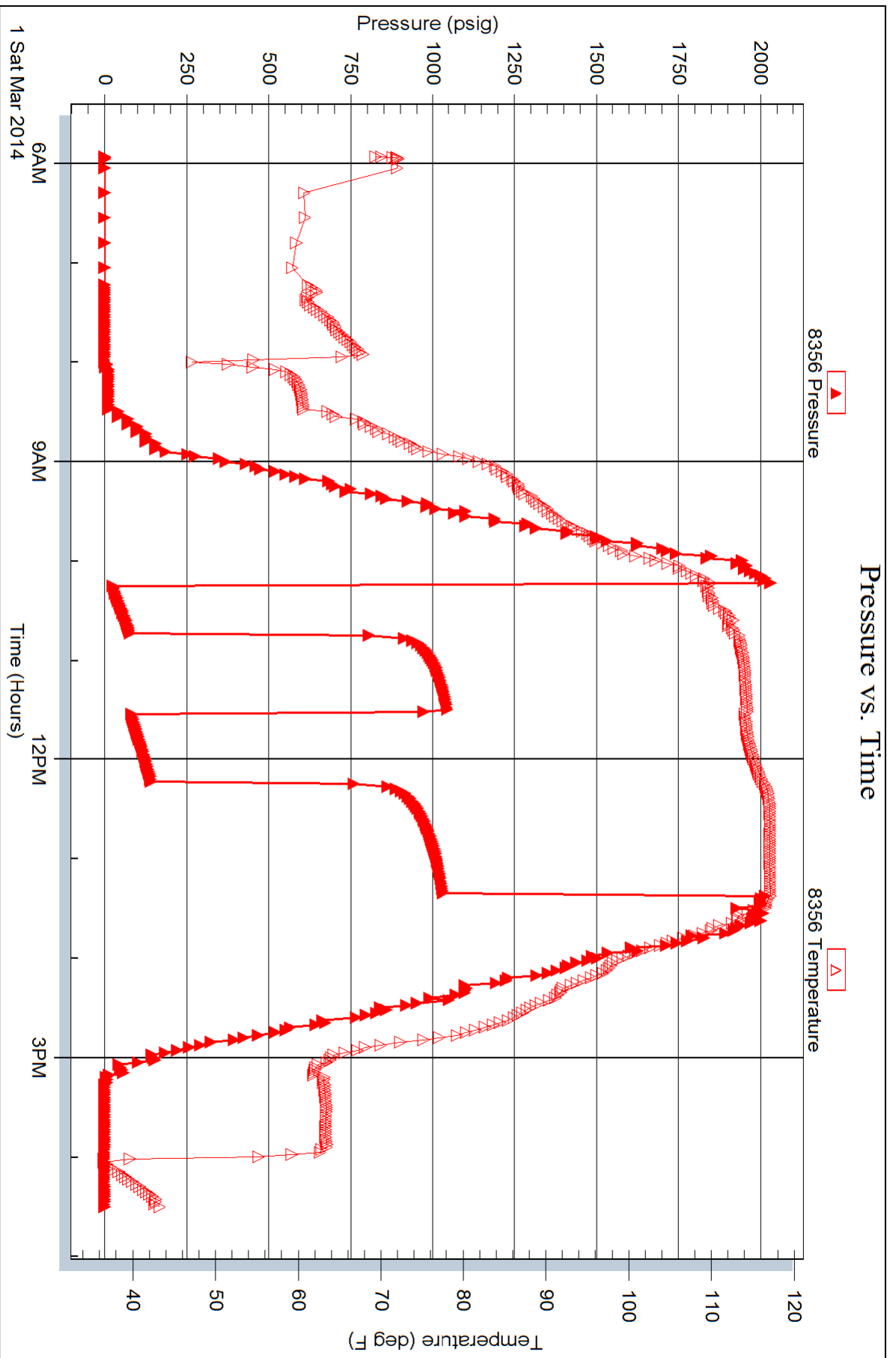
Laboratory Name:

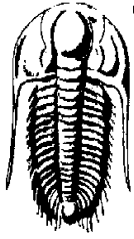
Laboratory Location:

Recovery Comments: .23@55=40000

### Pressure vs. Time







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O'Brien Resources LLC

1-18-29 Lane, Ks

P.O. Box 6149  
Shreveport, LA 71136

Peck 1 #2

ATTN: Wyatt Urban

Job Ticket: 55641

DST#: 2

Test Start: 2014.03.02 @ 14:57:30

## GENERAL INFORMATION:

Formation: **180-200**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:29:30

Time Test Ended: 06:46:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 60

Interval: **4180.00 ft (KB) To 4234.00 ft (KB) (TVD)**

Reference Elevations: 2746.00 ft (KB)

Total Depth: 4234.00 ft (KB) (TVD)

2739.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 7.00 ft

Serial #: **8356** Outside

Press @ Run Depth: 26.60 psig @ 4181.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.03.02

End Date:

2014.03.03

Last Calib.:

2014.03.03

Start Time: 14:57:35

End Time:

06:46:00

Time On Btm:

2014.03.02 @ 20:29:00

Time Off Btm:

2014.03.02 @ 22:33:00

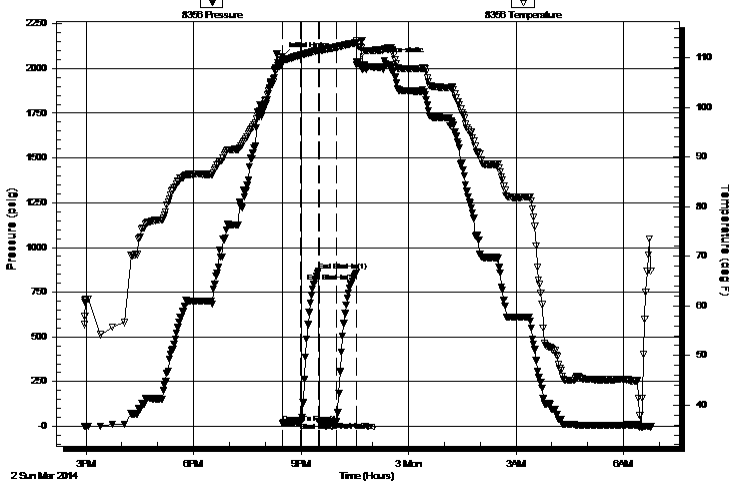
TEST COMMENT: IF: Surface blow died in 7 min.

IS: No return.

FF: No blow.

FS: No return.

Pressure vs. Time



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2066.94	109.67	Initial Hydro-static
1	19.43	109.46	Open To Flow (1)
31	22.17	110.56	Shut-In(1)
61	867.87	111.53	End Shut-In(1)
61	23.25	111.45	Open To Flow (2)
91	26.60	112.12	Shut-In(2)
124	856.54	113.05	End Shut-In(2)
124	2036.39	113.42	Final Hydro-static

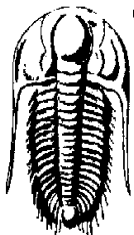
## Recovery

Length (ft)	Description	Volume (bbl)
10.00	mud 100% m	0.05

## Gas Rates

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

\* Recovery from multiple tests



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## DRILL STEM TEST REPORT

**FLUID SUMMARY**

O Brien Resources LLC

**1-18-29 Lane, Ks**

P.O. Box 6149  
Shreveport, LA 71136

**Peck 1 #2**

Job Ticket: 55641

**DST#: 2**

ATTN: Wyatt Urban

Test Start: 2014.03.02 @ 14:57:30

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.60 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3800.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	mud 100% m	0.049

Total Length: 10.00 ft      Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

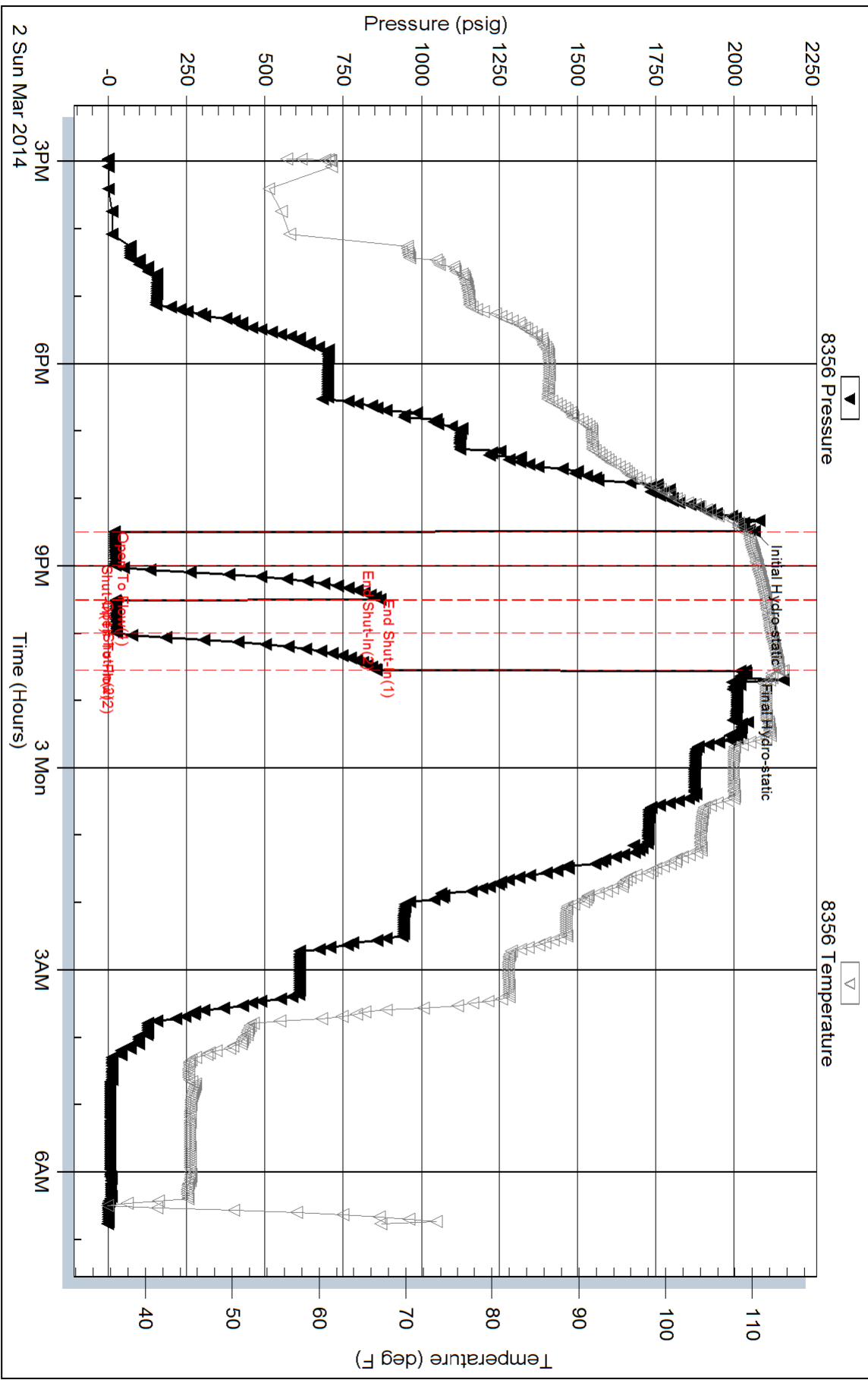
Serial #:

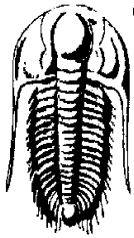
Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time





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1-18-29 Lane, Ks

P.O. Box 6149  
Shreveport, LA 71136

Peck 1 #2

ATTN: Kurt Talbott

Job Ticket: 55642

DST#: 3

Test Start: 2014.03.04 @ 09:42:42

## GENERAL INFORMATION:

Formation: **220**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 12:25:42  
 Time Test Ended: 19:00:42  
 Interval: **4230.00 ft (KB) To 4270.00 ft (KB) (TVD)**  
 Total Depth: 4270.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Brandon Turley  
 Unit No: 60  
 Reference Elevations: 2746.00 ft (KB)  
 2739.00 ft (CF)  
 KB to GR/CF: 7.00 ft

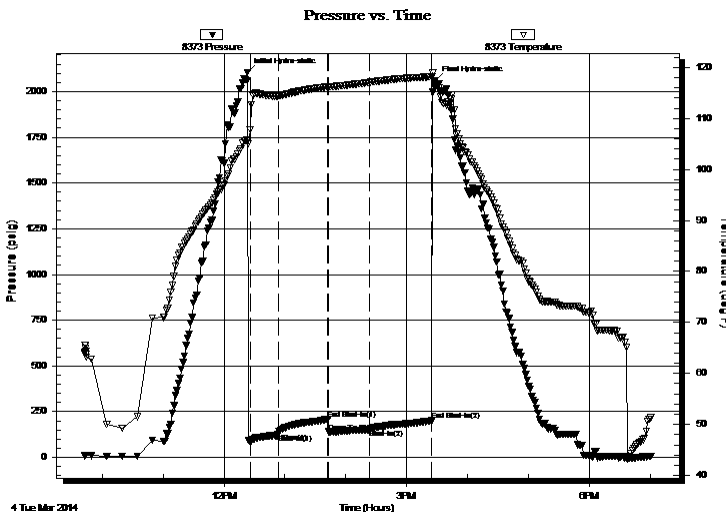
## Serial #: 8373

Inside

Press @ Run Depth: 151.60 psig @ 4231.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2014.03.04 End Date: 2014.03.04 Last Calib.: 2014.03.04  
 Start Time: 09:42:47 End Time: 19:00:42 Time On Btm: 2014.03.04 @ 12:23:12  
 Time Off Btm: 2014.03.04 @ 15:27:42

TEST COMMENT: IF: BOB in 6 min.  
 IS: Surface blow built to 1/4 died in 20 min.  
 FF: Surface blow built to 4 1/2 in 45 min.  
 FS: No return.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2104.68	105.84	Initial Hydro-static
3	84.24	107.76	Open To Flow (1)
30	125.70	114.40	Shut-In(1)
79	208.04	116.22	End Shut-In(1)
80	139.23	116.18	Open To Flow (2)
120	151.60	117.11	Shut-In(2)
182	200.72	118.18	End Shut-In(2)
185	2060.43	116.82	Final Hydro-static

## Recovery

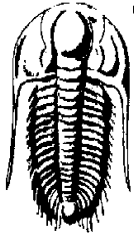
Length (ft)	Description	Volume (bbl)
62.00	ocm 50%o 50%m	0.30
124.00	ocm 20%o 80%m	0.61
186.00	go 5%g 95%o	1.93
0.00	186 GIP	0.00

## Gas Rates

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

\* Recovery from multiple tests





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P.O. Box 6149  
Shreveport, LA 71136

**Peck 1 #2**

Job Ticket: 55642

**DST#: 3**

ATTN: Kurt Talbott

Test Start: 2014.03.04 @ 09:42:42

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

37 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 44.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4300.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
62.00	ocm 50%o 50%m	0.305
124.00	ocm 20%o 80%m	0.610
186.00	go 5%g 95%o	1.935
0.00	186 GIP	0.000

Total Length: 372.00 ft

Total Volume: 2.850 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

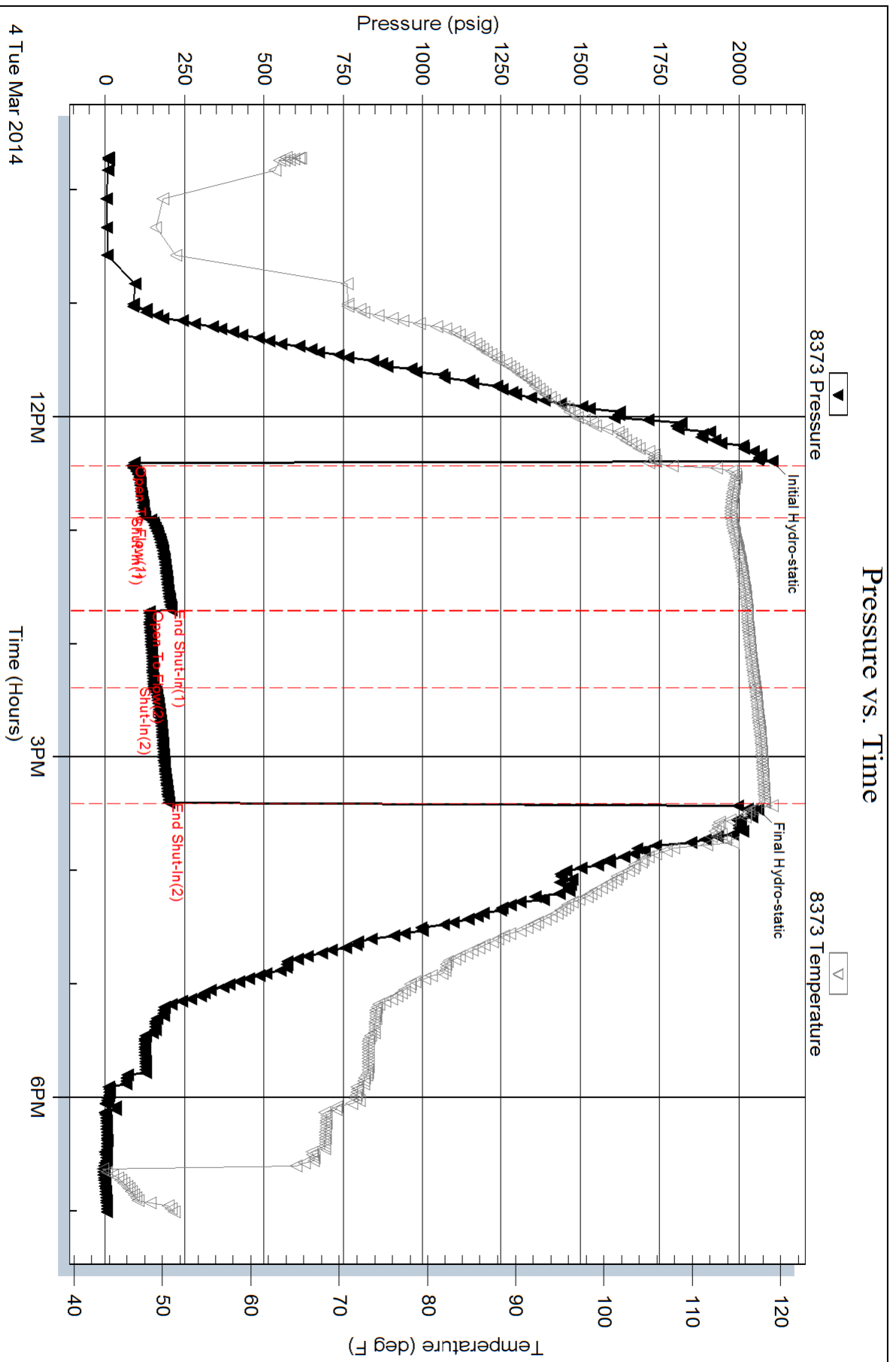
Serial #:

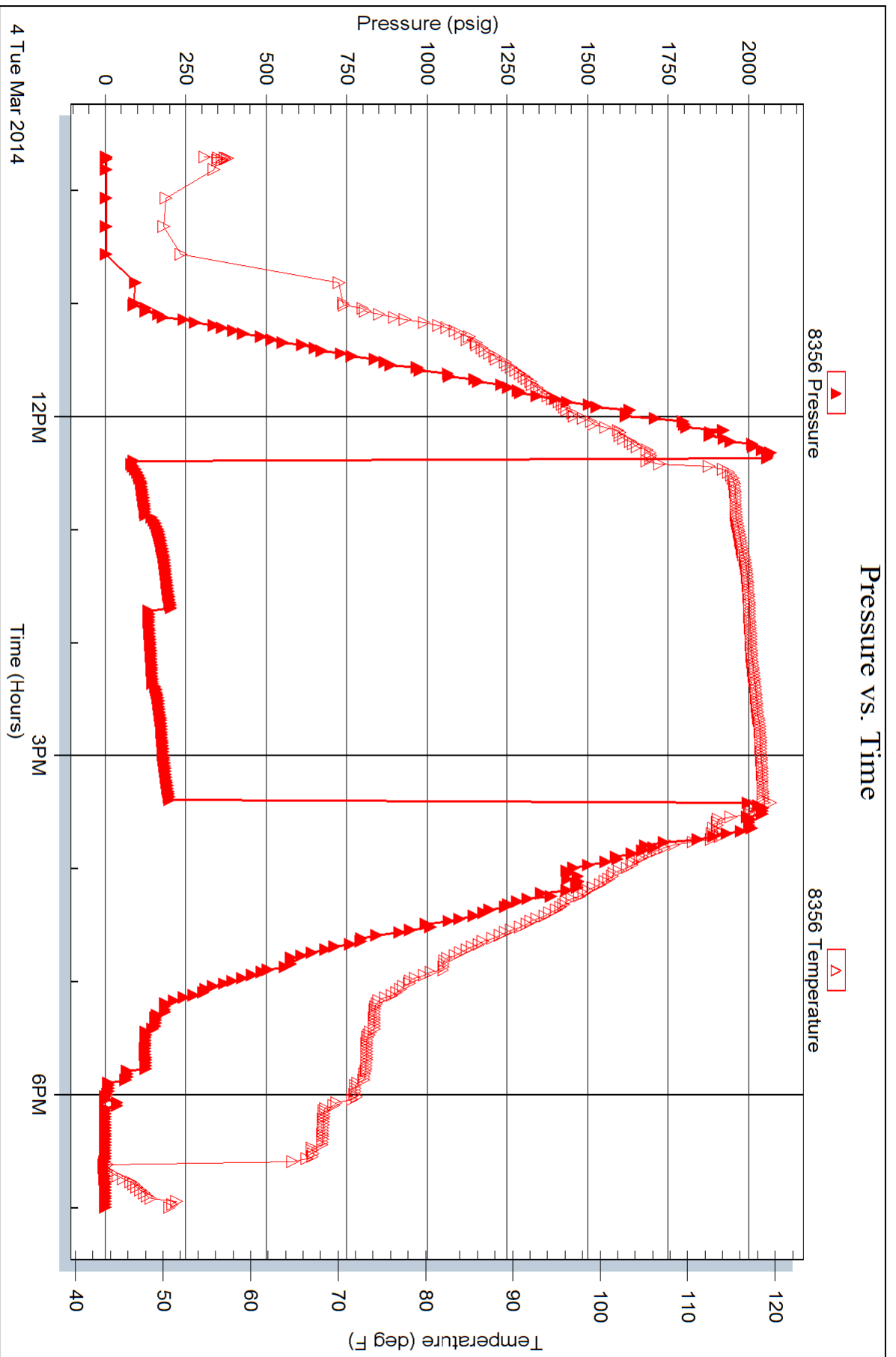
Laboratory Name:

Laboratory Location:

Recovery Comments: 36@50=37

### Pressure vs. Time







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O Brien Resources LLC

1-18-29 Lane, Ks

P.O. Box 6149  
Shreveport, LA 71136

Peck 1 #2

Job Ticket: 55643

DST#: 4

ATTN: Kurt Talbott

Test Start: 2014.03.06 @ 08:01:53

## GENERAL INFORMATION:

Formation: **Marmaton Ft Scott**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:37:23

Time Test Ended: 14:47:23

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 60

Interval: **4342.00 ft (KB) To 4475.00 ft (KB) (TVD)**

Reference Elevations: 2746.00 ft (KB)

Total Depth: 4475.00 ft (KB) (TVD)

2739.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 7.00 ft

Serial #: **8373**

Inside

Press@RunDepth: 38.78 psig @ 4343.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.03.06

End Date:

2014.03.06

Last Calib.:

2014.03.06

Start Time: 08:01:58

End Time:

14:47:22

Time On Btm:

2014.03.06 @ 10:36:53

Time Off Btm:

2014.03.06 @ 12:40:23

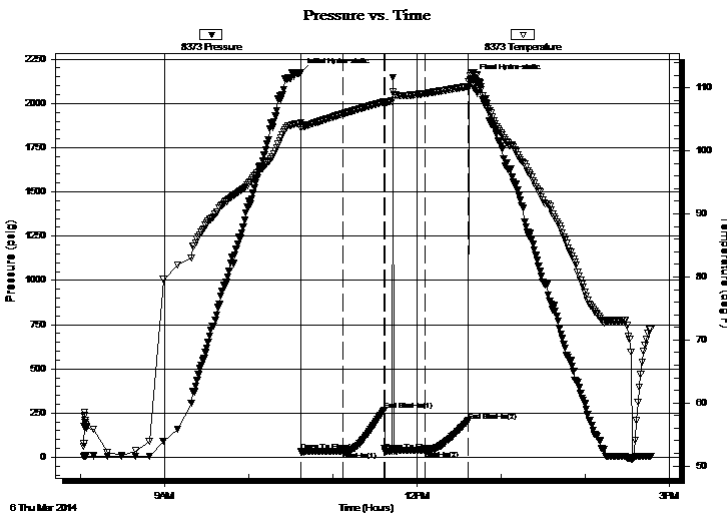
TEST COMMENT: IF: 1/2 blow died in 14 min.

IS: No return.

FF: No blow. Flushed tool surface blow died in 2 min.

FS: No return.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2175.69	104.50	Initial Hydro-static
1	31.63	103.73	Open To Flow (1)
31	33.87	105.90	Shut-In(1)
60	267.27	107.77	End Shut-In(1)
61	33.76	107.68	Open To Flow (2)
89	38.78	109.12	Shut-In(2)
120	206.41	110.26	End Shut-In(2)
124	2139.21	112.47	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
15.00	mud 100%m	0.07

## Gas Rates

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

\* Recovery from multiple tests



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O Brien Resources LLC

**1-18-29 Lane, Ks**

P.O. Box 6149  
Shreveport, LA 71136

**Peck 1 #2**

Job Ticket: 55643

**DST#: 4**

ATTN: Kurt Talbott

Test Start: 2014.03.06 @ 08:01:53

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.00 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1800.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	mud 100%m	0.074

Total Length: 15.00 ft      Total Volume: 0.074 bbl

Num Fluid Samples: 0

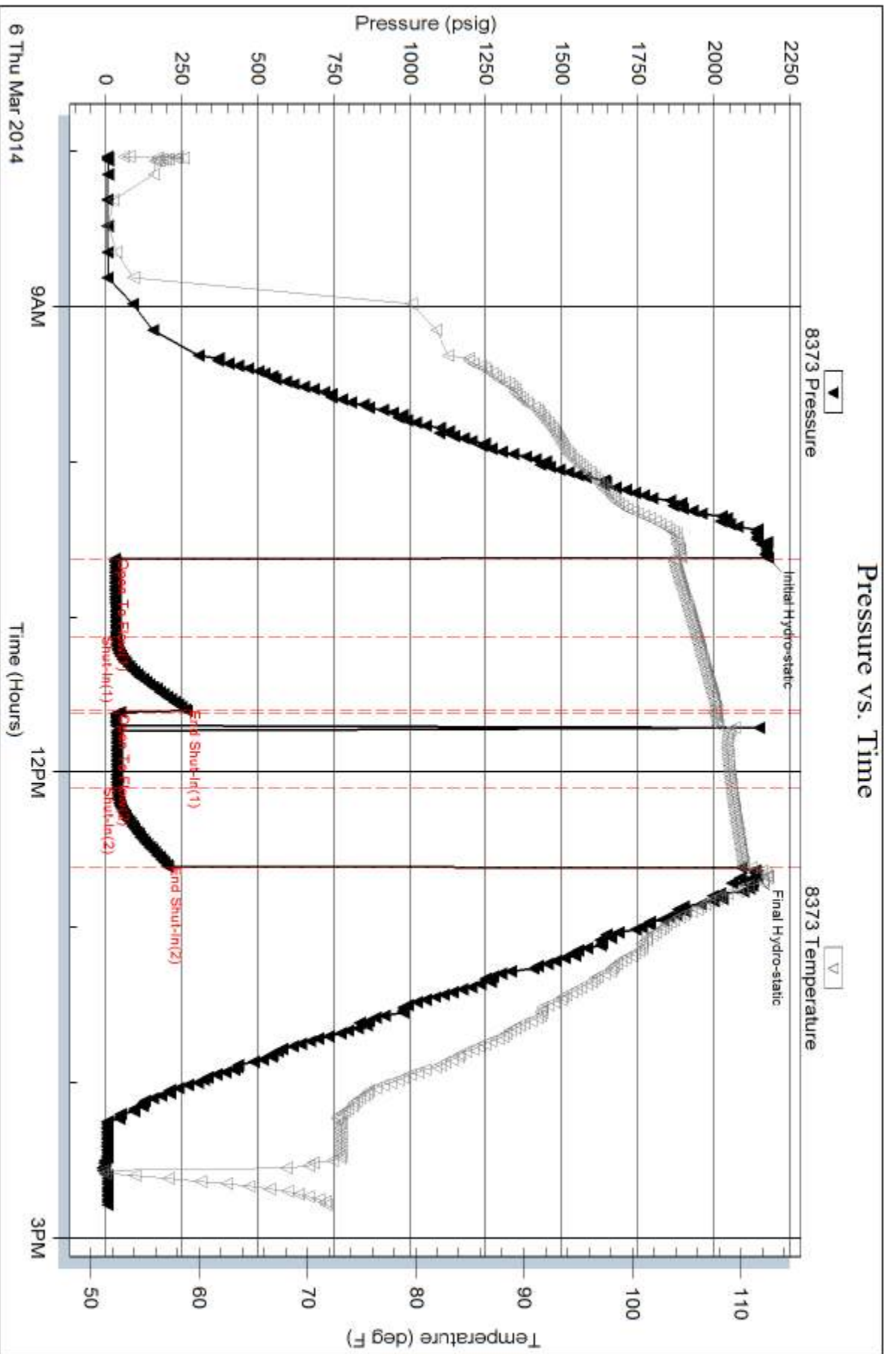
Num Gas Bombs: 0

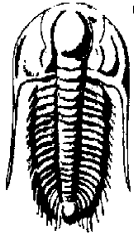
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





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O'Brien Resources LLC

1-18-29 Lane, Ks

P.O. Box 6149  
Shreveport, LA 71136

Peck 1 #2

ATTN: Kurt Talbott

Job Ticket: 55644

DST#: 5

Test Start: 2014.03.07 @ 14:39:27

## GENERAL INFORMATION:

Formation: **Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:02:27

Time Test Ended: 22:55:27

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 60

Interval: **4458.00 ft (KB) To 4535.00 ft (KB) (TVD)**

Reference Elevations: 2746.00 ft (KB)

Total Depth: 4535.00 ft (KB) (TVD)

2739.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 7.00 ft

Serial #: **8373** Inside

Press @ Run Depth: 40.15 psig @ 4459.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.03.07

End Date:

2014.03.07

Last Calib.:

2014.03.07

Start Time: 14:39:32

End Time:

22:55:26

Time On Btm:

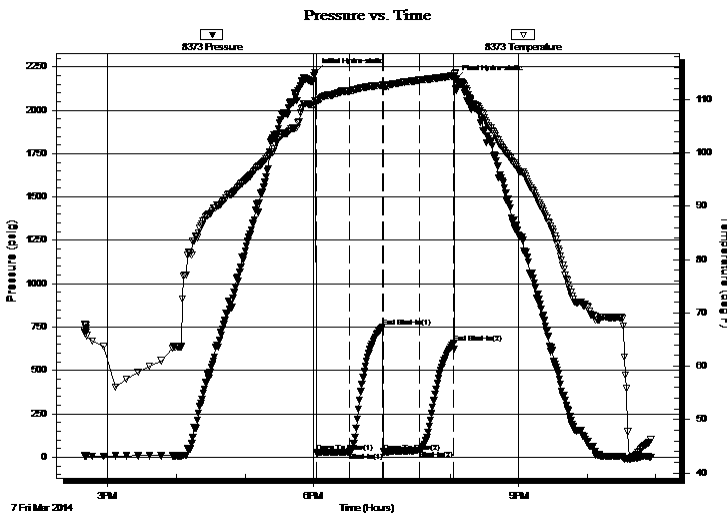
2014.03.07 @ 18:01:27

Time Off Btm:

2014.03.07 @ 20:03:57

TEST COMMENT: IF: Surface blow died in 10 min.  
IS: No return.  
FF: No blow. Flushed tool no blow.  
FS: No return.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2217.73	109.77	Initial Hydro-static
1	26.58	109.67	Open To Flow (1)
30	30.93	111.59	Shut-In(1)
59	751.85	112.67	End Shut-In(1)
60	31.49	112.37	Open To Flow (2)
92	40.15	113.71	Shut-In(2)
122	657.60	114.42	End Shut-In(2)
123	2177.61	114.85	Final Hydro-static

## Recovery

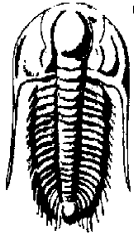
Length (ft)	Description	Volume (bbl)
10.00	mud 100%m	0.05

## Gas Rates

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

\* Recovery from multiple tests





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# DRILL STEM TEST REPORT

## FLUID SUMMARY

O Brien Resources LLC

**1-18-29 Lane, Ks**

P.O. Box 6149  
Shreveport, LA 71136

**Peck 1 #2**

Job Ticket: 55644

**DST#: 5**

ATTN: Kurt Talbott

Test Start: 2014.03.07 @ 14:39:27

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.40 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3600.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	mud 100%m	0.049

Total Length: 10.00 ft      Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

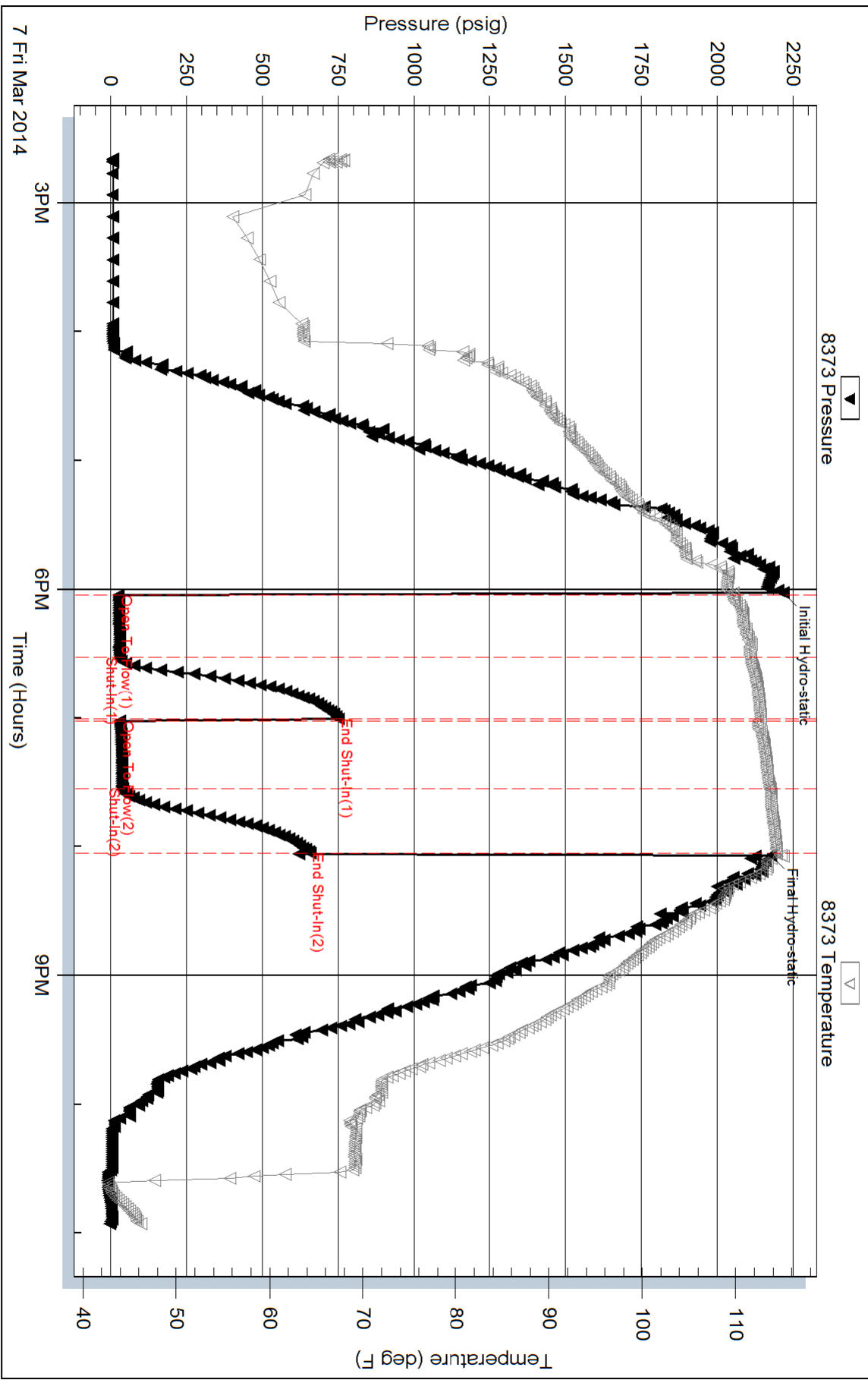
Serial #:

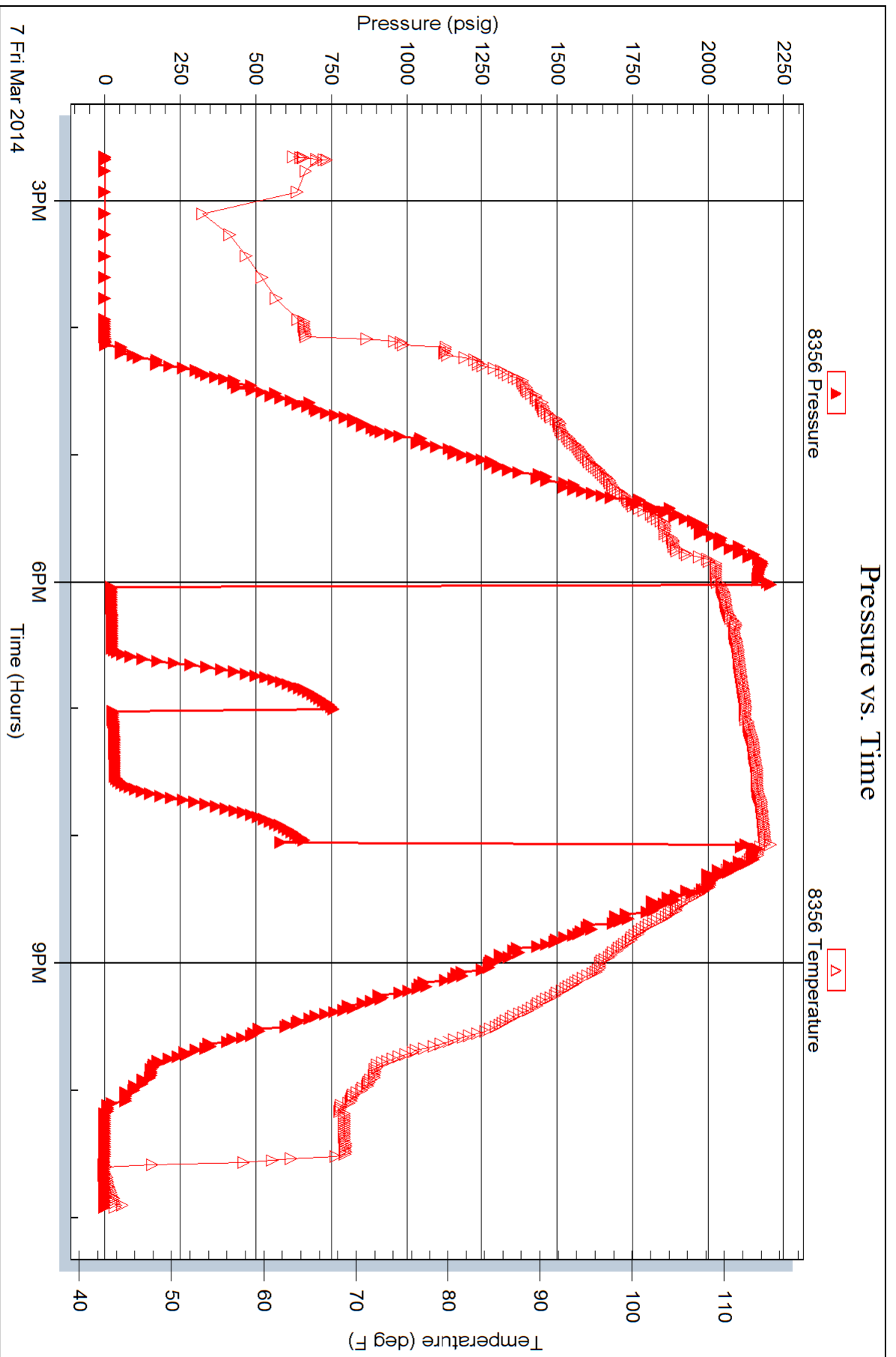
Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time







**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

O Brien Resources LLC

1-18-29 Lane, Ks

P.O. Box 6149  
Shreveport, LA 71136

Peck 1 #2

Job Ticket: 55645

DST#: 6

ATTN: Kurt Talbott

Test Start: 2014.03.09 @ 00:46:21

## GENERAL INFORMATION:

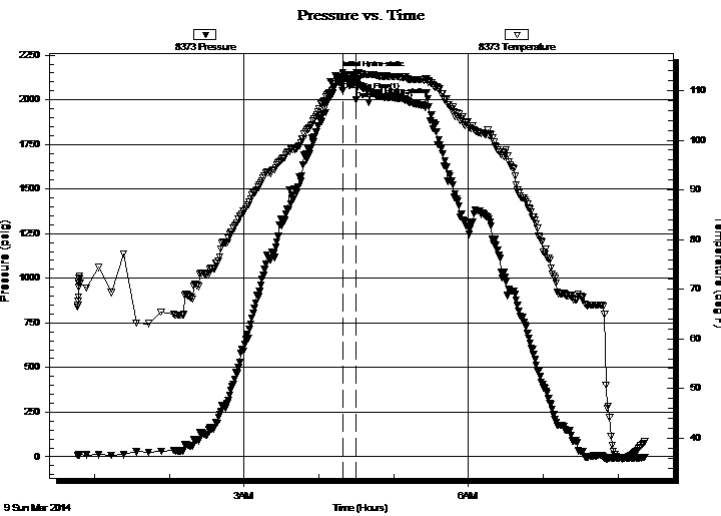
Formation: **L**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 04:18:51  
 Time Test Ended: 08:21:51  
 Interval: **4198.00 ft (KB) To 4276.00 ft (KB) (TVD)**  
 Total Depth: 4668.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Brandon Turley  
 Unit No: 60  
 Reference Elevations: 2746.00 ft (KB)  
 2739.00 ft (CF)  
 KB to GR/CF: 7.00 ft

## Serial #: 8373

Inside

Press@RunDepth: psig @ 4199.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2014.03.09 End Date: 2014.03.09 Last Calib.: 2014.03.09  
 Start Time: 00:46:26 End Time: 08:21:50 Time On Btm: 2014.03.09 @ 04:13:21  
 Time Off Btm: 2014.03.09 @ 04:32:21

TEST COMMENT: Packer failed at open.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2133.65	111.30	Initial Hydro-static
6	2053.06	112.53	Open To Flow (1)
17	1998.88	113.03	Open To Flow (2)
19	2111.61	113.56	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
310.00	mud 100%m	1.98

\* Recovery from multiple tests

## Gas Rates

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





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# DRILL STEM TEST REPORT

**FLUID SUMMARY**

O Brien Resources LLC

**1-18-29 Lane, Ks**

P.O. Box 6149  
Shreveport, LA 71136

**Peck 1 #2**

Job Ticket: 55645

**DST#: 6**

ATTN: Kurt Talbott

Test Start: 2014.03.09 @ 00:46:21

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 46.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.40 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3600.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
310.00	mud 100%m	1.980

Total Length: 310.00 ft      Total Volume: 1.980 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

