

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Lario Oil & Gas Company

9-17s-31w Scott, Ks

301 S market St
Wichita Ks 67202

Socolofsky 2-9

ATTN: Tim Lauer

Job Ticket: 61794

DST#: 1

Test Start: 2015.11.25 @ 08:47:50

GENERAL INFORMATION:

Formation: **Lansing B**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:32:50

Time Test Ended: 16:05:50

Test Type: Inflate Bottom Hole (Initial)

Tester: Brandon Turley

Unit No: 79

Interval: 3974.00 ft (KB) To 3999.00 ft (KB) (TVD)

Total Depth: 3999.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2960.00 ft (KB)

2950.00 ft (CF)

KB to GRVCF: 10.00 ft

Serial #: 8166

Outside

Press@RunDepth: 51.39 psig @ 3979.00 ft (KB)

Start Date: 2015.11.25

End Date:

2015.11.25

Capacity: 8000.00 psig

Last Calib.: 2015.11.25

Start Time: 08:47:55

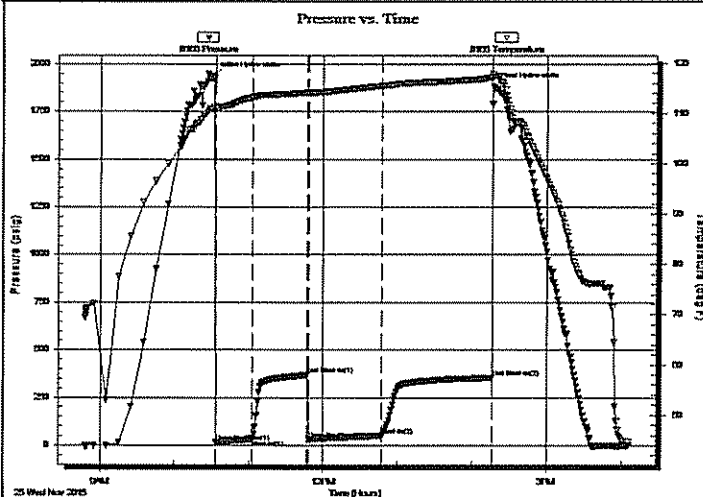
End Time:

16:05:49

Time On Btm: 2015.11.25 @ 10:31:20

Time Off Btm: 2015.11.25 @ 14:17:20

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



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1937.91	110.95	Initial Hydro-static
2	15.56	110.98	Open To Flow (1)
31	32.57	113.07	Shut-In(1)
76	369.62	114.08	End Shut-In(1)
77	33.03	114.02	Open To Flow (2)
136	51.39	115.41	Shut-In(2)
225	354.61	117.13	End Shut-In(2)
226	1881.95	117.32	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	ocm 10%o 90%w	0.30
10.00	free oil 100%o	0.05

Gas Rates

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



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FLUID SUMMARY

Lario Oil & Gas Company

9-17s-31w Scott, Ks

301 S market St
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Socolofsky 2-9

Job Ticket: 61794

DST#: 1

ATTN: Tim Lauer

Test Start: 2015.11.25 @ 08:47:50

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 8.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 57.00 sec/qt

Cushion Volume:

bbf

Water Loss: 6.40 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 700.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
62.00	ocm 10%o 90%m	0.305
10.00	free oil 100%0	0.049

Total Length: 72.00 ft Total Volume: 0.354 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

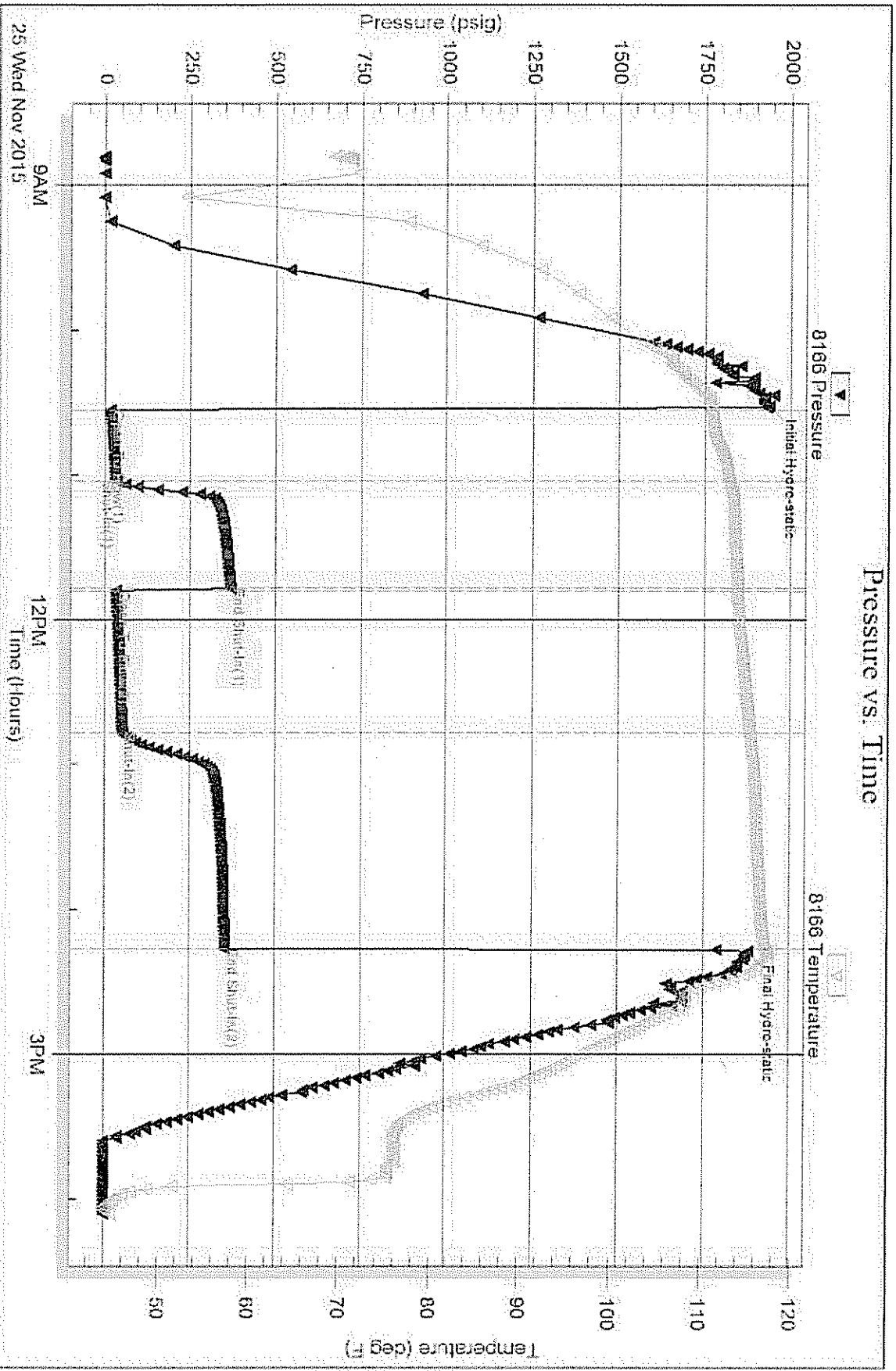
Recovery Comments:

Serial #: 8166

Outside Lario Oil & Gas Company

Society 2.9

DST Test Number 1



Tribble Testing, Inc

Ref. No: 81794

Printed: 2015-11-25 @ 16:20:52



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Lario Oil & Gas Company

9-17s-31w Scott, Ks

301 S market St
Wichita Ks 67202

Socolofsky 2-9

Job Ticket: 61795

DST#: 2

ATTN: Tim Lauer

Test Start: 2015.11.25 @ 23:30:03

GENERAL INFORMATION:

Formation: **Lansing D**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:01:33

Time Test Ended: 05:24:03

Test Type: Inflate Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 79

Interval: 4030.00 ft (KB) To 4048.00 ft (KB) (TVD)

Total Depth: 4048.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2960.00 ft (KB)

2950.00 ft (CF)

KB to GRVCF: 10.00 ft

Serial #: 8166

Outside

Press@RunDepth: 17.07 psig @ 4035.00 ft (KB)

Start Date: 2015.11.25 End Date: 2015.11.26

Start Time: 23:30:08 End Time: 05:24:02

Capacity: 8000.00 psig

Last Calib.: 2015.11.26

Time On Btm: 2015.11.26 @ 01:01:03

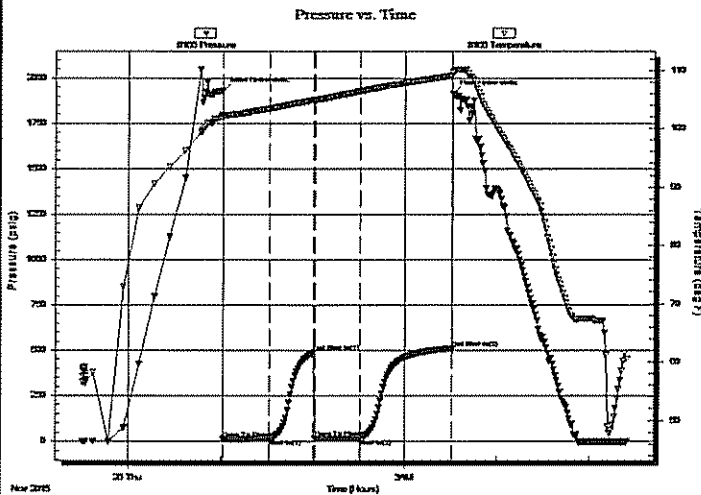
Time Off Btm: 2015.11.26 @ 03:31:33

TEST COMMENT: IF: Weak surface blow died in 6 min.

IS: No return.

FF: No blow.

FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1929.26	102.27	Initial Hydro-static
1	12.91	101.92	Open To Flow (1)
30	15.42	103.38	Shut-In(1)
59	486.93	104.88	End Shut-In(1)
60	15.99	104.82	Open To Flow (2)
90	17.07	106.40	Shut-In(2)
150	510.34	109.06	End Shut-In(2)
151	1912.11	109.64	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3.00	oil 100%o	0.01
2.00	mud 100%m	0.01

* Recovery from multiple tests

Gas Rates

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

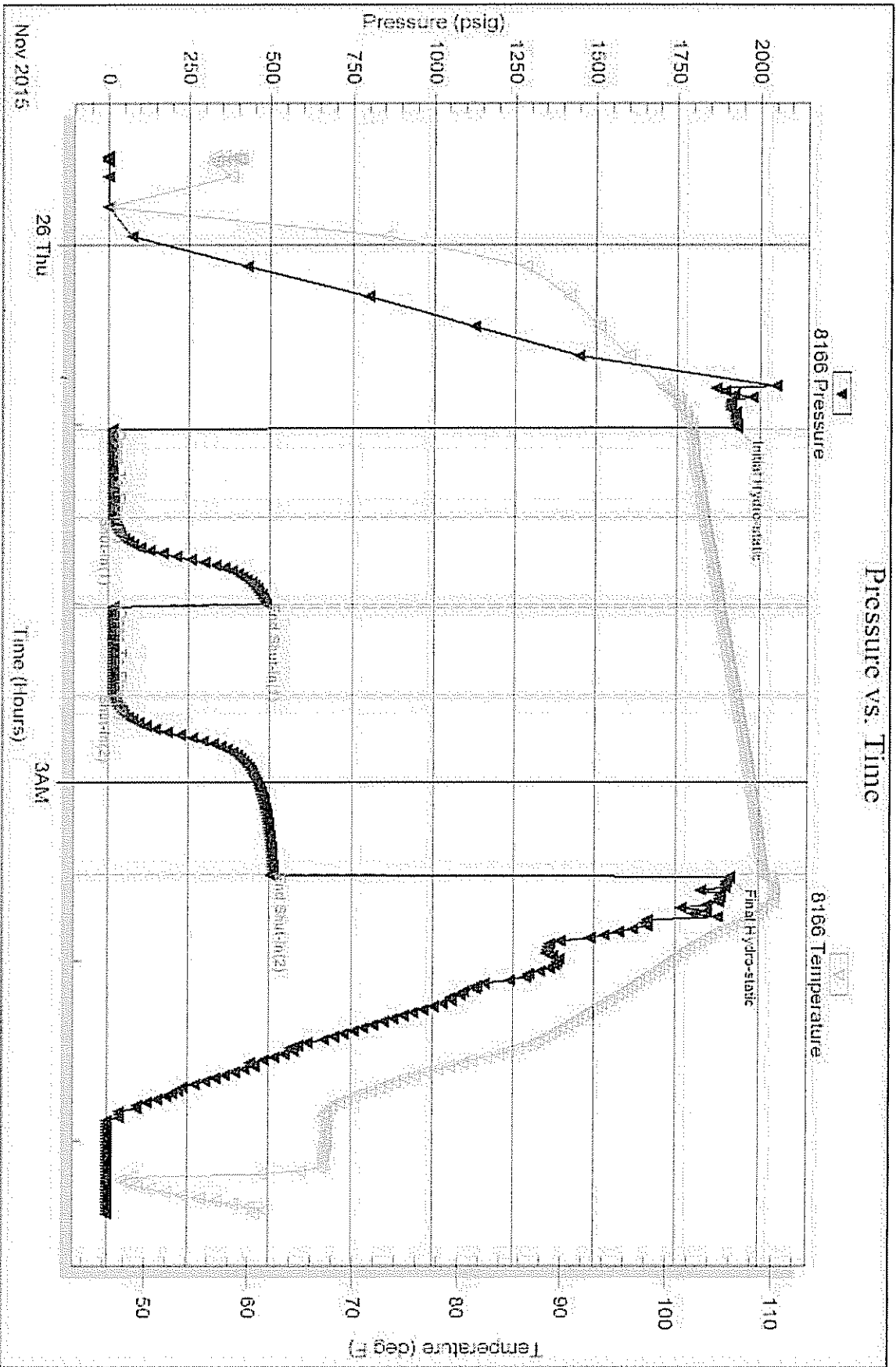
Serial #: 8166

Outside: Lard Oil & Gas Company

Seco/sky 2.9

DST Test Number: 2

Pressure vs. Time



Tribble Testing, Inc

Ref. No. 01795

Printed: 2015.11.27 @ 13:50:25

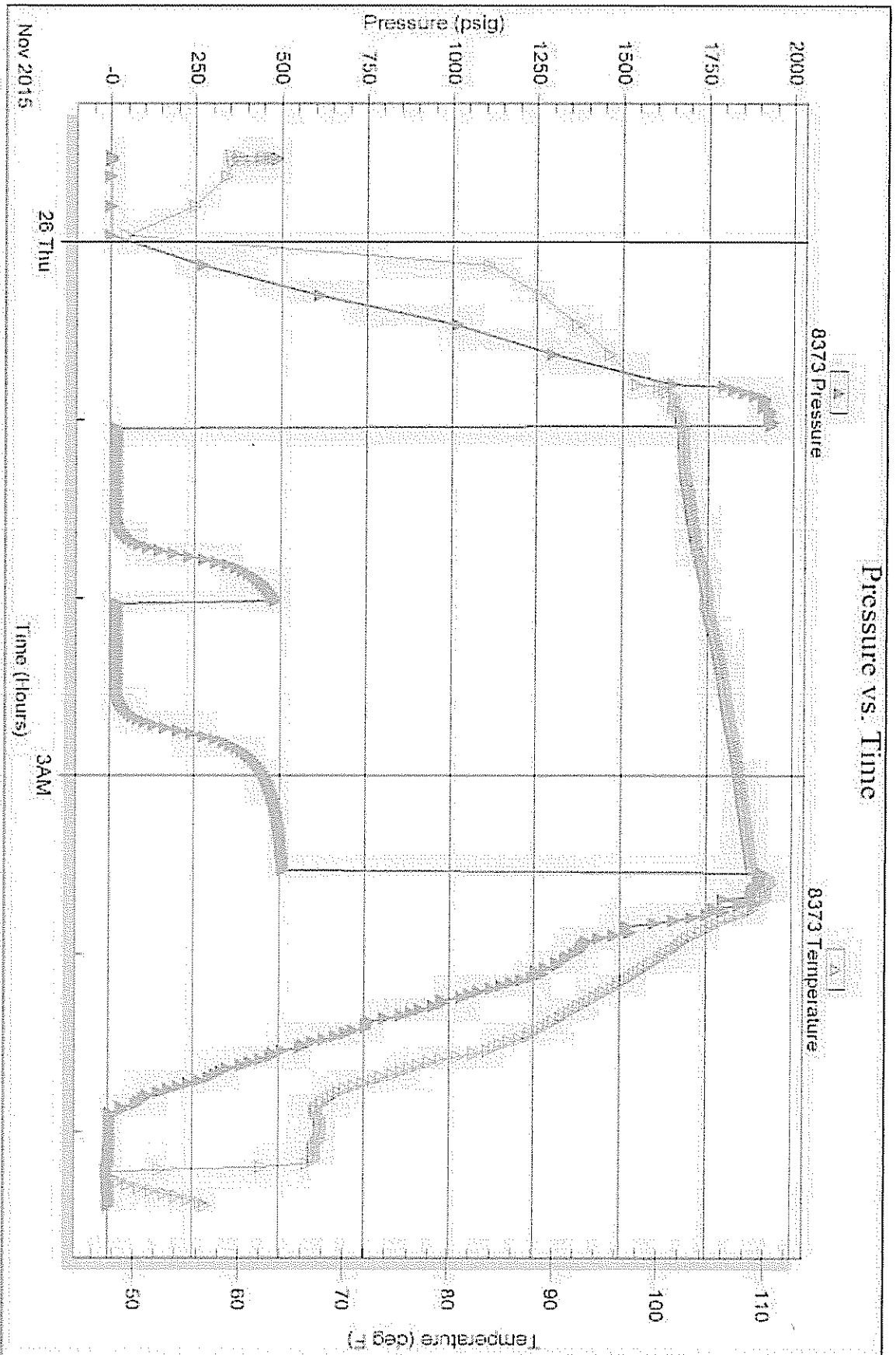
Serial #: 8373

Inside

Lario Oil & Gas Company

Secorovsky 2-9

DST Test Number: 2



Tribble Testing, Inc

Ref. No. 61795

Printed: 2015-11-27 @ 13:56:25



**TRILOBITE
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DRILL STEM TEST REPORT

Lario Oil & Gas Company

9-17s-31w Scott, Ks

301 S market St
Wichita Ks 67202

Socolofsky 2-9

Job Ticket: 61796

DST#: 3

ATTN: Tim Lauer

Test Start: 2015.11.27 @ 22:47:52

GENERAL INFORMATION:

Formation: **Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:40:10

Time Test Ended: 06:44:39

Test Type: Inflate Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 79

Interval: 4490.00 ft (KB) To 4563.00 ft (KB) (TVD)

Total Depth: 4563.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2960.00 ft (KB)

2950.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8166

Outside

Press@RunDepth: 40.67 psig @ 4495.00 ft (KB)

Start Date: 2015.11.27

End Date:

2015.11.28

Capacity: 8000.00 psig

Last Calib.: 2015.11.28

Start Time: 22:47:57

End Time:

06:44:39

Time On Btm: 2015.11.28 @ 00:38:10

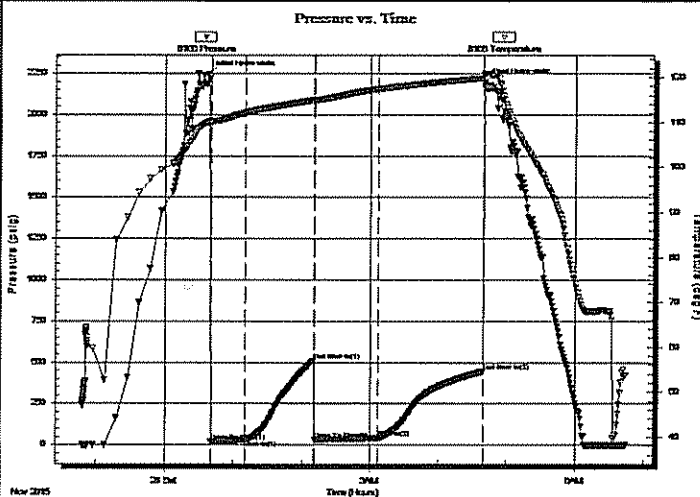
Time Off Btm: 2015.11.28 @ 04:40:39

TEST COMMENT: IF: 1/4 blow died in surface.

IS: No return.

FF: Surface blow built to 3.

FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2244.89	110.05	Initial Hydro-static
2	19.62	110.02	Open To Flow (1)
32	29.57	112.09	Shut-In(1)
92	508.06	114.96	End Shut-In(1)
93	29.13	114.86	Open To Flow (2)
149	40.67	117.41	Shut-In(2)
241	444.11	119.89	End Shut-In(2)
243	2195.76	120.77	Final Hydro-static

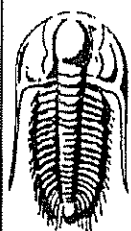
Recovery

Length (ft)	Description	Volume (bbl)
60.00	ocm 10%o 90%m	0.30

* Recovery from multiple tests

Gas Rates

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



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FLUID SUMMARY

Lario Oil & Gas Company

9-17s-31w Scott, Ks

301 S market St
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Socolofsky 2-9

Job Ticket: 61796

DST#: 3

ATTN: Tim Lauer

Test Start: 2015.11.27 @ 22:47:52

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:	0 ppm
Viscosity: 49.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.40 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 800.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

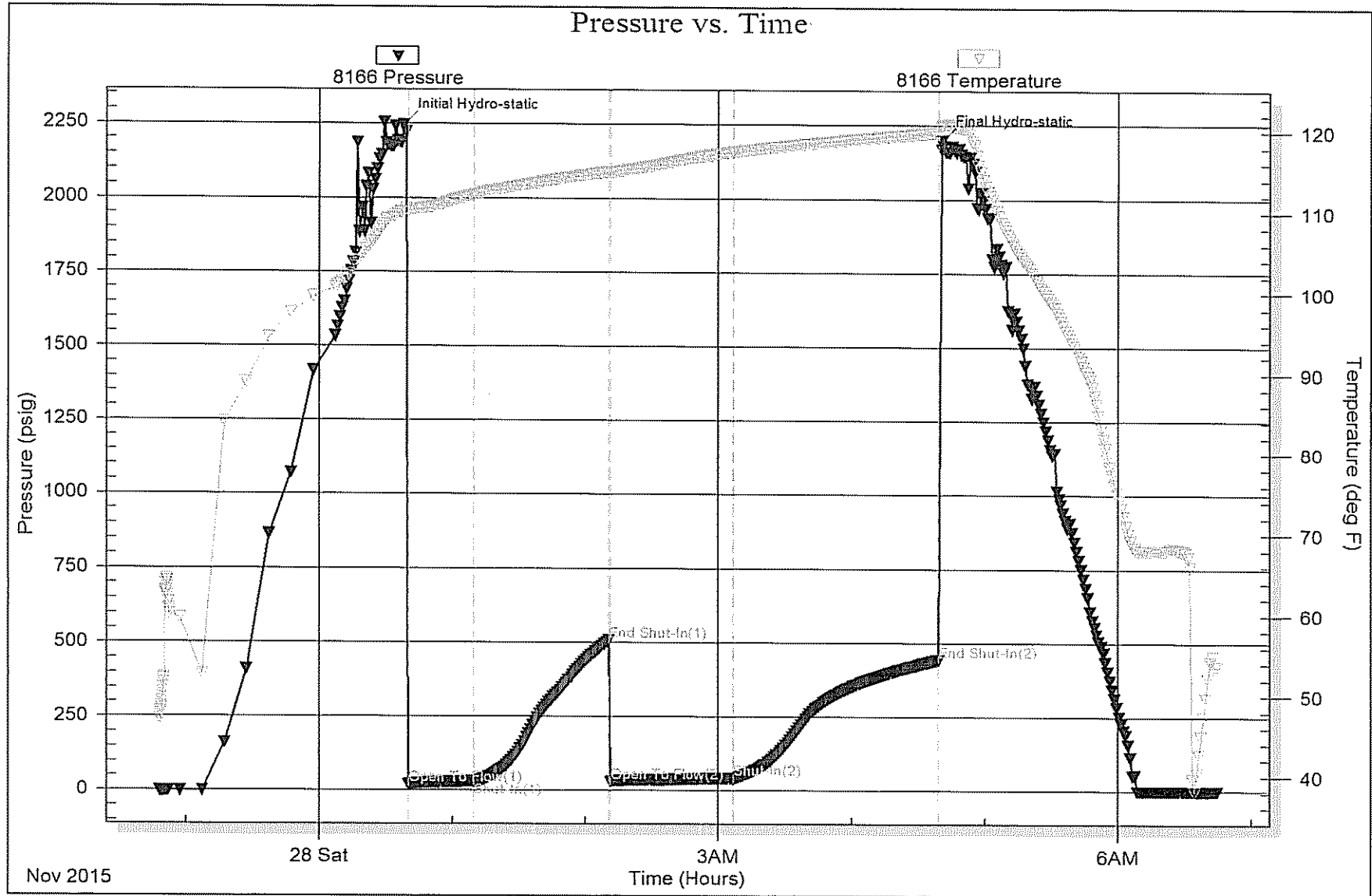
Length ft	Description	Volume bbl
60.00	ocm 10%o 90%m	0.295

Total Length: 60.00 ft Total Volume: 0.295 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

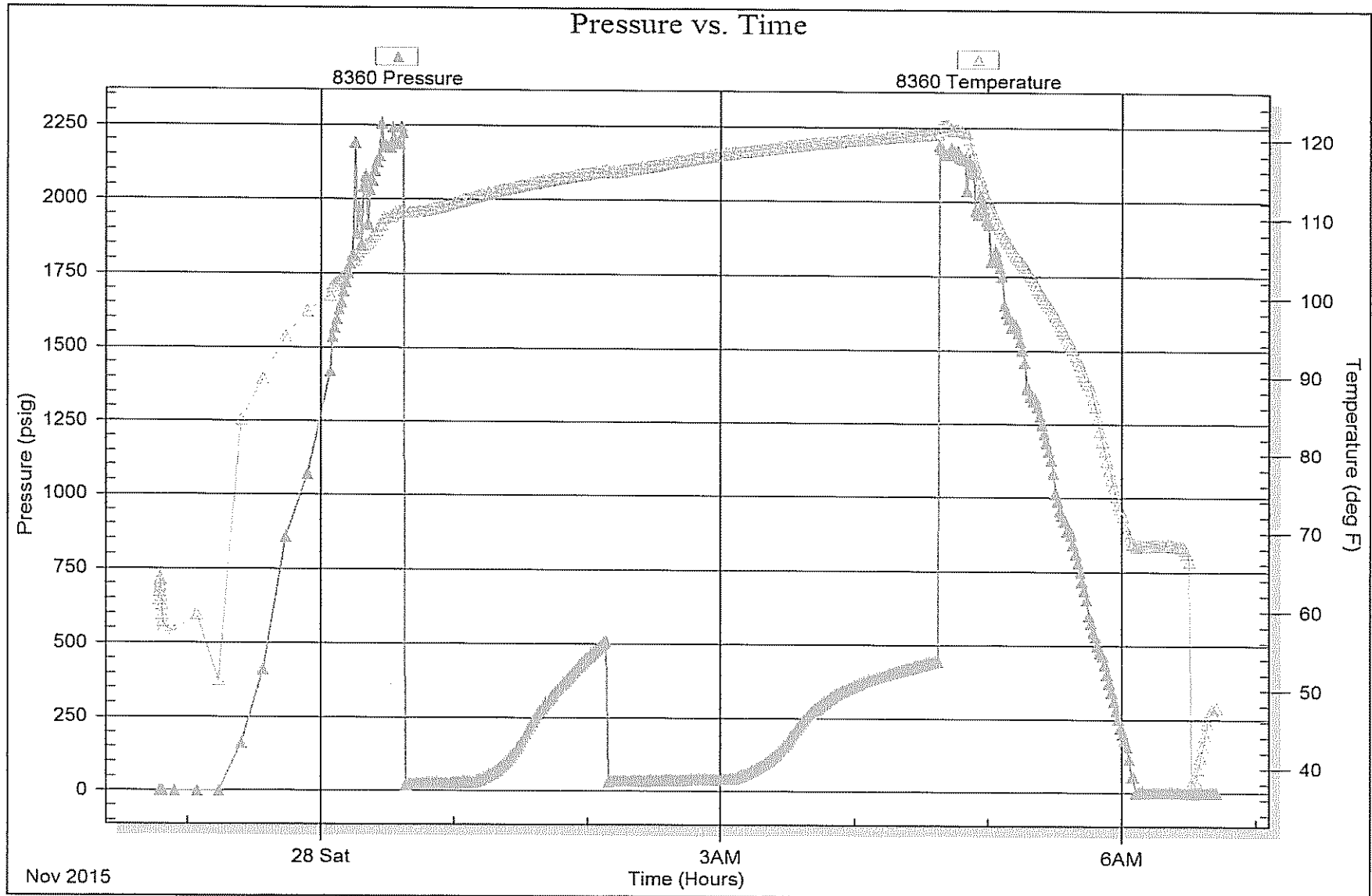


Serial #: 8360

Inside Lario Oil & Gas Company

Socolofsky 2-9

DST Test Number: 3





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Lario Oil & Gas Company

9-17s-31w Scott, Ks

301 S market St
Wichita Ks 67202

Socolofsky 2-9

Job Ticket: 61797

DST#: 4

ATTN: Tim Lauer

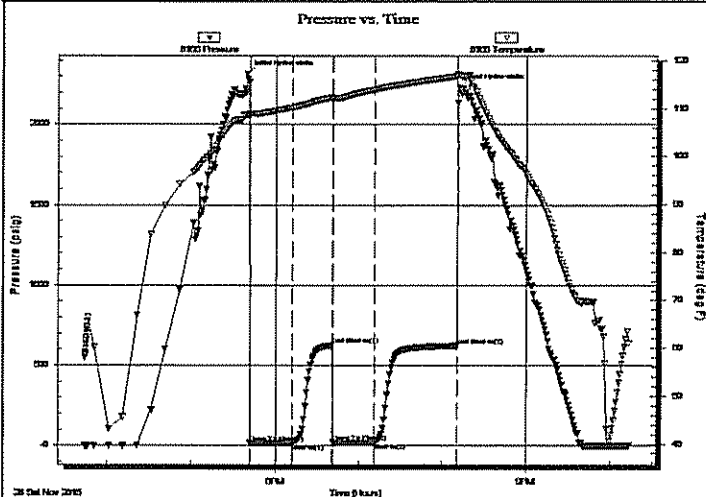
Test Start: 2015.11.28 @ 15:44:19

GENERAL INFORMATION:

Formation: Basal Sand
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 17:41:49
 Time Test Ended: 22:13:49
 Interval: 4562.00 ft (KB) To 4578.00 ft (KB) (TVD)
 Total Depth: 4578.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Inflate Bottom Hole (Reset)
 Tester: Brandon Turley
 Unit No: 79
 Reference Elevations: 2960.00 ft (KB)
 2950.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 8166 Outside
 Press@RunDepth: 17.20 psig @ 4567.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2015.11.28 End Date: 2015.11.28 Last Calib.: 2015.11.28
 Start Time: 15:44:24 End Time: 22:13:48 Time On Btm: 2015.11.28 @ 17:39:49
 Time Off Btm: 2015.11.28 @ 20:12:19

TEST COMMENT: IF: 1/4 blow died in 10.
 IS: No return.
 FF: No blow.
 FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2315.34	108.63	Initial Hydro-static
2	14.98	108.70	Open To Flow (1)
33	15.82	110.18	Shut-In(1)
61	623.81	112.27	End Shut-In(1)
62	16.24	112.04	Open To Flow (2)
91	17.20	113.94	Shut-In(2)
151	622.47	116.75	End Shut-In(2)
153	2227.97	116.93	Final Hydro-static

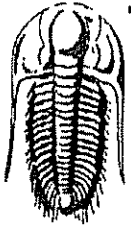
Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud 100% m	0.02

* Recovery from multiple tests

Gas Rates

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



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9-17s-31w Scott, Ks

301 S market St
Wichita Ks 67202

Socolofsky 2-9

Job Ticket: 61797

DST#: 4

ATTN: Tim Lauer

Test Start: 2015.11.28 @ 15:44:19

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:

bbl

Water Loss: 7.60 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1350.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	mud 100%m	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

